# PATENT COOPERATION TREATY

# **PCT**

REC'D	29	MAR 2005
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

### (PCT Article 36 and Rule 70)

Applicant's or agent's file reference  FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41						
96700/840						
International application No.	International filing date (day/month/year)		Priority date (day/month/year)			
PCT/US03/33438	22 October 2003 (22.10.2003)		24 October 2002 (24.10.2002)			
International Patent Classification (IPC)	or national classification and IPC					
IPC(7): A61K 9/00; C12N 1/00, and US	C1.: 424/93.21, 400					
Applicant						
ALBERT EINSTEIN COLLEGE OF M	EDICINE YESHIVA UNIVERSI	ΓY				
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> <li>This REPORT consists of a total of  sheets, including this cover sheet.</li> </ol>						
2. This REPORT consists of	a total of sheets, including	mis cover sheer	••			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a						
3. This report contains indica	ations relating to the following	items:				
I Basis of the rep	I Basis of the report					
II Priority						
III Non-establishm	ent of report with regard to no	velty inventive	step and industrial applicability			
IV Lack of unity o	-	vony, involute	stop and measure approxima			
		1				
	nent under Article 35(2) with a tations and explanations suppo					
VI Certain docume	ents cited					
VII Certain defects	Certain defects in the international application					
VIII Certain observations on the international application						
Date of submission of the demand	Date	of completion o	of this report			
21 May 2004 (21.05.2004)		16 March 2005 (16.03.2005)				
Name and mailing address of the IPEA/US		orized officer	0			
Mail Stop PCT, Atm: IPEA/ US Commissioner for Patents	Jam	allera)	Bell-Harris for			
P.O. Box 1450 Alexandria, Virginia 22313-1450	Tolor	whone No. (571) 2	272-1600			
Facsimile No. (703) 305-3230		Mone 140. (5/1) 2				

Form PCT/IPEA/409 (cover sheet)(July 1998)

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US03/33438	

I.	Basis of the report	
1.	With regard to the elements of the international application:*	
	the international application as originally filed.	
	the description:	
	pages 1-31 as originally filed pages NONE , filed with the demand	
	pages NONE , filed with the demand pages NONE , filed with the letter of	
	the claims:	
	pages 32-42, as originally filed pages NONE, as amended (together with any statement) under Article 19	•
	pages NONE, filed with the demand	
	pages NONE, filed with the letter of	
	the drawings:	
	pages 1-5, as originally filed	
	pages NONE , filed with the demand pages NONE , filed with the letter of	
	the sequence listing part of the description:	
	pages NONE, as originally filed pages NONE, filed with the demand	
	pages NONE, filed with the letter of	
2.	With regard to the language, all the elements marked above were available or furnished to this Aut	hority in the
	language in which the international application was filed, unless otherwise indicated under this item	
	These elements were available or furnished to this Authority in the following language which	
	the language of a translation furnished for the purposes of international search (under Rule23.	1(b)).
	the language of publication of the international application (under Rule 48.3(b)).	
	the language of the translation furnished for the purposes of international preliminary examina	tion(under Rules
_	55.2 and/or 55.3).	the
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application international preliminary examination was carried out on the basis of the sequence listing:	on, me
	contained in the international application in printed form.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority in written form.	
	furnished subsequently to this Authority in computer readable form.	
	The statement that the subsequently furnished written sequence listing does not go beyond the	disclosure in the
	international application as filed has been furnished.	
	The statement that the information recorded in computer readable form is identical to the write has been furnished.	ten sequence listing
4.	The amendments have resulted in the cancellation of:	
٠.		
	the description, pages NONE	
	the claims, Nos. NONE	
	the drawings, sheets/fig NONE	
5.	This report has been established as if (some of) the amendments had not been made, since they have bee beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
thi	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article s report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 7 Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this repor	0.16 and 70.17).

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/33438

Novelty (N)  Claims  Claims  NONE  Inventive Step (IS)  Claims  Claims  Claims  NONE  Industrial Applicability (IA)  Claims  Claims  NONE  Industrial Applicability (IA)  Claims  NONE  Claims  NONE  Claims  Claims  Claims  NONE  NO  Claims  Claims	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Inventive Step (IS)  Claims  C	1. STATEMENT		—		
Inventive Step (IS)  Claims 1-143  Claims NONE  Industrial Applicability (IA)  Claims 1-143  Claims NONE  NO  Industrial Applicability (IA)  Claims 1-143  Claims NONE  NO  Claims 1-143  Claims 1-143 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest applicants' particular caged ligands, kits for said compounds and methods of using said compounds wherein the claimed invention is characterized by distinct means for regulation of gene expression using caged ligands that bind and activate receptors when uncaged by exposure to light.  Claims 1-143 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.	Novelty (N)	Claims	1-143	YES	
Industrial Applicability (IA)  Claims 1-143  Claims NONE  Claims NONE  NO  2. CITATIONS AND EXPLANATIONS  Claims 1-143 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest applicants' particular caged ligands, kits for said compounds and methods of using said compounds wherein the claimed invention is characterized by distinct means for regulation of gene expression using caged ligands that bind and activate receptors when uncaged by exposure to light.  Claims 1-143 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.	11010109 (11)				
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